PC-0025 CIP

<110> Walker, Michael, G.

<120> Ankyrin Repeat Domain 2 Protein

<130> PC-0025 CIP

<140> To Be Assigned
<141> Herewith

<160> 13
<170> PERL Program

<210> 1
<211> 329
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5578191CD1

<400> 1

```
Met Glu Asp Ser Glu Ala Val Gln Arg Ala Thr Ala Leu Ile Glu
  1               5                  10                  15
Gln Arg Leu Ala Gln Glu Glu Glu Asn Glu Lys Leu Arg Gly Asp
             20                  25                  30
Thr Arg Gln Lys Leu Pro Met Asp Leu Leu Val Leu Glu Asp Glu
             35                  40                  45
Lys His His Gly Ala Gln Ser Ala Ala Leu Gln Lys Val Lys Gly
             50                  55                  60
Gln Glu Arg Val Arg Lys Thr Ser Leu Asp Leu Arg Arg Glu Ile
             65                  70                  75
Ile Asp Val Gly Gly Ile Gln Asn Leu Ile Glu Leu Arg Lys Lys
             80                  85                  90
Arg Lys Gln Lys Lys Arg Asp Ala Leu Ala Ala Ser His Glu Pro
             95                 100                 105
Pro Pro Glu Pro Glu Glu Ile Thr Gly Pro Val Asp Glu Glu Thr
            110                 115                 120
Phe Leu Lys Ala Ala Val Glu Gly Lys Met Lys Val Ile Glu Lys
            125                 130                 135
Phe Leu Ala Asp Gly Gly Ser Ala Asp Thr Cys Asp Gln Phe Arg
            140                 145                 150
Arg Thr Ala Leu His Arg Ala Ser Leu Glu Gly His Met Glu Ile
            155                 160                 165
Leu Glu Lys Leu Leu Asp Asn Gly Ala Thr Val Asp Phe Gln Asp
            170                 175                 180
Arg Leu Asp Cys Thr Ala Met His Trp Ala Cys Arg Gly Gly His
            185                 190                 195
Leu Glu Val Val Lys Leu Leu Gln Ser His Gly Ala Asp Thr Asn
            200                 205                 210
Val Arg Asp Lys Leu Leu Ser Thr Pro Leu His Val Ala Val Arg
            215                 220                 225
Thr Gly Gln Val Glu Ile Val Glu His Phe Leu Ser Leu Gly Leu
            230                 235                 240
Glu Ile Asn Ala Arg Asp Arg Glu Gly Asp Thr Ala Leu His Asp
```

```
                245                 250                 255
Ala Val Arg Leu Asn Arg Tyr Lys Ile Ile Lys Leu Leu Leu Leu
                260                 265                 270
His Gly Ala Asp Met Met Thr Lys Asn Leu Ala Gly Lys Thr Pro
                275                 280                 285
Thr Asp Leu Val Gln Leu Trp Gln Ala Asp Thr Arg His Ala Leu
                290                 295                 300
Glu His Pro Glu Pro Gly Ala Glu His Asn Gly Leu Glu Gly Pro
                305                 310                 315
Asn Asp Ser Gly Arg Glu Thr Pro Gln Pro Val Pro Ala Gln
                320                 325
```

<210> 2
<211> 1158
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5578191CB1

<400> 2
cagctcgagg gacggcacca tggaggactc cgaggcggtg cagagggcca cagcgctcat 60
cgagcagcgg ctggcacagg aggaggagaa tgagaaactc cgaggagaca cacgccagaa 120
gctgcccatg gacttgctgg tgctggagga tgagaagcac cacggggctc agagtgcagc 180
cctgcagaag gtgaagggcc aagagcgcgt gcgcaagacg tccctggacc tgcggcggga 240
gatcatcgat gtgggcggga tccagaacct catcgagctg cggaagaaac gcaagcagaa 300
gaagcgggac gctctggccg cctcgcatga gccgccccca gagcccgagg agatcactgg 360
ccctgtggat gaggagacct tcctgaaagc tgcggtggag gggaaaatga aggtcattga 420
gaagttcctg gctgacgggg ggtcagccga cacgtgcgac cagttccgtc ggacagcact 480
gcaccgagct tccctggaag gccacatgga aatcctggag aagcttctag ataatggggc 540
cactgtggac ttccaggatc ggctggactg cacagccatg cattgggcct gccgcggggg 600
ccacttagag gtggtgaaac ttctgcaaag ccatggagca gacaccaatg tgagggataa 660
gctgctgagc accccgctgc acgtggcagt ccggacaggg caggtggaga ttgtggagca 720
ctttctatcc ctgggcctgg aaatcaatgc cagagacagg gaaggggata ctgccctgca 780
tgacgctgtg aggctcaacc gctacaaaat catcaaactg ctgctcctgc atggggctga 840
catgatgacc aagaacctgg caggaaagac cccgacggac ctggtgcagc tctggcaggc 900
tgatacccgg cacgccctgg agcatcctga gccgggggct gagcataacg ggctggaggg 960
gcctaatgat agtgggcgag agacccctca gcctgtgcca gcccagtgaa tgcgtgcccc 1020
agcccagcca gctacccagc ccctctctgt gtgcagccgg agggtcctaa gaatggctcc 1080
cggagctaac tgagggccca gccttttttc tgcatgatcc aggagcacat accacaaact 1140
accacaataa aaaagctg 1158

<210> 3
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 972118R6

<400> 3
gacggcacca tggaggactc cgaggcggtg cagagggcca cagcgctcat cgagcagcgg 60
ctggcacagg aggaggagaa tgagaaactc cgaggagacg cacgccagaa gctgcccatg 120
gacttgctgg tgctggagga tgagaagcac cacggggctc agagtgcagc cctgcagaag 180

```
gtgaagggcc aagagcgcgt gcgcaagacg tccctggacc tgcggcggga gatcatcgat 240
gtgggcggga tccagaacct catcgagctg cggaagaaac gcaagcagaa gaagcgggac 300
gctctggccg cctcgcatga gccgccccca gagcccgagg agatcactgg ccctgtggat 360
gaggagacct tcctgaaagc tgcggtggag gggaaacatg aaggtcattg agaagttcct 420
ggctgacggg gggtcagccg acacgtgcga ccagttccgt cggacagcac tgcaccgagc 480
ttccctggaa gggccacatg gaaatcctgg agaagcttct agataatggg gccactgtgg 540
acttccagga tcggctggac tgcacagcca tgcatt                            576
```

<210> 4
<211> 253
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4852018H1

<400> 4

```
ctggccctgt ggatgaggag accttcctga aagctgcggt ggaggggaaa atgaaggtca 60
ttgagaagtt cctggctgac gggggtcag ccgacacgtg cgaccagttc cgtcggacag 120
cactgcaccg agcttccctg gaaggccaca tggaaatcct ggagaagctt ctagataatg 180
gggccactgt ggacttccag gatcggctgg actgcacagc catgcattgg gcctgccgcg 240
ggggccactt aga                                                     253
```

<210> 5
<211> 569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 972118T6

<400> 5

```
gctcctggat catgcagaaa aaaggctggg ccctcagtta gctccgggag ccattcttag 60
gaccctccgg ctgcacacag agaggggctg ggtagctggc tgggctgggg cacgcattca 120
ctgggctggc acaggctgag ggtctctcg cccactatca ttaggcccct ccagcccgtt 180
atgctcagcc cccggctcag gatgctccag ggcgtgccgg gtatcagcct gccagagctg 240
caccaggtcc gtcggggtct ttcctgccag gttcttggtc atcatgtcag ccccatgcag 300
gagcagcagt ttgatgattt tgtagcggtt gagcctcaca gcgtcatgca gggcagtatc 360
cccttccctg tctctggcat tgatttccag gcccagggat agaaagtgct ccacaatctc 420
cacctgccct gtccggactg ccacgtgcag cggggtgctc agcagcttat ccctcacatt 480
ggtgtctgct ccatggcttt gcagaagttt caccacctct aagtggcccc cgcggcaggc 540
ccaatgcatg gctgtgcagt ccagccgat                                    569
```

<210> 6
<211> 330
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7350215H1

<400> 6

```
acctggcagg aaagaccccg acggacctgg tgcagctctg gcaggctgat acccggcacg 60
```

ccctggagca tcctgagccg ggggctgagc ataacgggct ggaggggcct aatgatagtg 120
ggcgagagac ccctcagcct gtgccagccc agtgaatgcg tgccccagcc cagccagcta 180
cccagcccct ctctgtgtgc agccggaggg tcctaagaat ggctcccgga gctaactgag 240
ggcccagcct tttttctgca tgatccagga gcacatacca caaactacca caataaaaaa 300
gctgtttttg ctaattgcga tgttcatttc 330

<210> 7
<211> 255
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700911986H1

<400> 7
tggaaggcac catggagggt cccgaggctg tgcagagagc cacagagctc atcgagcagc 60
ggcttgccga ggaggaagag actgagaaac ttcgaagagc cactcctggg aagacgtcca 120
tggacatgct agtgctagag gacgagaagc gcctcggggt gcagagtcct gctttacaaa 180
aggttaaggg ccaagagcgc gtgcgcaaga catccctgga cttgcgacgt gagatcattg 240
acgtgggcgg gatcc 255

<210> 8
<211> 275
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701144158H1

<400> 8
gcacatggag ggtcccgagg ctgtgcagag agccacagag ctcatcgagc agcggcttgc 60
cgaatgaagg agaagactga gaaacttcga agagccactc ctgggaagac gtccatggac 120
atgctagtgc tagaggacga gaagcgcctg gggtgcagag tcctgcttta caaaaggtta 180
agggccaaga gcgcgtgcgc aagacatccc tggacttgcg acgtgagatc attgacgtgg 240
gcgggatcca gaacctcata gaactgagga aaaaa 275

<210> 9
<211> 315
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700188047H1

<220>
<221> unsure
<222> 54, 80, 121
<223> a, t, c, g, or other

<400> 9
attcctgaaa gcagcggtgg aggggaaaat caaagtcatt gacaagtacc tggnagacgg 60
aggttcggca gacacctgtn atgagttccg tcggacagca ctgcatcggg cctccctgga 120
nggacacatg gagatactgg agaaacttct ggagaatggg gccaccgtgg acttccagga 180

tcgcctggac tgcacagcca tgcactgggc ctgccgtgga ggccacctgg aggtggtgaa 240
atcttgcaaa gtcgggggggc caacaccgac gtgagagaca agctatgagc actcccctgc 300
atgtgggcgt ccgta 315

<210> 10
<211> 207
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700913268H1

<400> 10
atcaatgcca aagacagaga aggggacagt gccctgcatg atgccgtgag actcaaccgc 60
tacaaaatca tcaaactgct gctcttgcat ggggcagaca tgatggctaa gaatatggcg 120
gggaagaccc ctaccgacct ggtccagctg tggcaagcag acacccggca tgccctggag 180
caccctgaac cagaatcaga gcagaac 207

<210> 11
<211> 328
<212> PRT
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: g9501360

<400> 11
Met Glu Gly Pro Glu Ala Val Gln Arg Ala Thr Glu Leu Ile Glu
1 5 10 15
Gln Arg Leu Ala Gln Glu Glu Glu Thr Glu Lys Leu Arg Arg Ser
20 25 30
Ala Pro Gly Lys Leu Ser Met Asp Met Leu Val Leu Glu Glu Glu
35 40 45
Lys Arg Leu Gly Val Gln Ser Pro Ala Leu Gln Lys Val Lys Gly
50 55 60
Gln Glu Arg Val Arg Lys Thr Ser Leu Asp Leu Arg Arg Glu Ile
65 70 75
Ile Asp Val Gly Gly Ile Gln Asn Leu Ile Glu Leu Arg Lys Lys
80 85 90
Arg Lys Gln Lys Lys Arg Asp Ala Leu Ala Ala Ala Gln Glu Pro
95 100 105
Pro Pro Glu Pro Glu Glu Ile Thr Gly Pro Val Asn Glu Glu Thr
110 115 120
Phe Leu Lys Ala Ala Val Glu Gly Lys Met Lys Val Ile Asp Lys
125 130 135
Tyr Leu Ala Asp Gly Gly Ser Ala Asp Thr Cys Asp Glu Phe Arg
140 145 150
Arg Thr Ala Leu His Arg Ala Ser Leu Glu Gly His Met Glu Ile
155 160 165
Leu Glu Lys Leu Leu Glu Asn Gly Ala Thr Val Asp Phe Gln Asp
170 175 180
Arg Leu Asp Cys Thr Ala Met His Trp Ala Cys Arg Gly Gly His
185 190 195
Leu Glu Val Val Arg Leu Leu Gln Ser Arg Gly Ala Asp Thr Asn

```
                200                 205                 210
Val Arg Asp Lys Leu Leu Ser Thr Pro Leu His Val Ala Val Arg
                215                 220                 225
Thr Gly His Val Glu Ile Val Glu His Phe Leu Ser Leu Gly Leu
                230                 235                 240
Asp Ile Asn Ala Lys Asp Arg Glu Gly Asp Ser Ala Leu His Asp
                245                 250                 255
Ala Val Arg Leu Asn Arg Tyr Lys Ile Ile Lys Leu Leu Leu Leu
                260                 265                 270
His Gly Ala Asp Met Met Ala Lys Asn Leu Ala Gly Lys Thr Pro
                275                 280                 285
Thr Asp Leu Val Gln Leu Trp Gln Ala Asp Thr Arg His Ala Leu
                290                 295                 300
Glu His Pro Glu Pro Glu Ser Glu Gln Asn Gly Leu Glu Arg Pro
                305                 310                 315
Gly Ser Gly Arg Glu Thr Pro Gln Pro Ile Pro Ala Gln
                320                 325
```

<210> 12
<211> 328
<212> PRT
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: g5420272

<400> 13

```
Met Glu Gly Pro Glu Ala Val Gln Arg Ala Thr Glu Leu Ile Glu
  1               5                  10                  15
Gln Arg Leu Ala Gln Glu Glu Glu Thr Glu Lys Leu Arg Arg Ser
                 20                  25                  30
Ala Pro Gly Lys Leu Ser Met Asp Met Leu Val Leu Glu Glu Glu
                 35                  40                  45
Lys Arg Leu Gly Val Gln Ser Pro Ala Leu Gln Lys Val Lys Gly
                 50                  55                  60
Gln Glu Arg Val Arg Lys Thr Ser Leu Asp Leu Arg Arg Glu Ile
                 65                  70                  75
Ile Asp Val Gly Gly Ile Gln Asn Leu Ile Glu Leu Arg Lys Lys
                 80                  85                  90
Arg Lys Gln Lys Lys Arg Asp Ala Leu Ala Ala Ala Gln Glu Pro
                 95                 100                 105
Pro Pro Glu Pro Glu Glu Ile Thr Gly Pro Val Asn Glu Glu Thr
                110                 115                 120
Phe Leu Lys Ala Ala Val Glu Gly Lys Met Lys Val Ile Asp Lys
                125                 130                 135
Tyr Leu Ala Asp Gly Gly Ser Ala Asp Thr Cys Asp Glu Phe Arg
                140                 145                 150
Arg Thr Ala Leu His Arg Ala Ser Leu Glu Gly His Met Glu Ile
                155                 160                 165
Leu Glu Lys Leu Leu Glu Asn Gly Ala Thr Val Asp Phe Gln Asp
                170                 175                 180
Arg Leu Asp Cys Thr Ala Met His Trp Ala Cys Arg Gly Gly His
                185                 190                 195
Leu Glu Val Val Arg Leu Leu Gln Ser Arg Gly Ala Asp Thr Asn
                200                 205                 210
```

```
Val Arg Asp Lys Leu Leu Ser Thr Pro Leu His Val Ala Val Arg
                215                 220                 225
Thr Gly His Val Glu Ile Val Glu His Phe Leu Ser Leu Gly Leu
                230                 235                 240
Asp Ile Asn Ala Lys Asp Arg Glu Gly Asp Ser Ala Leu His Asp
                245                 250                 255
Ala Val Arg Leu Asn Arg Tyr Lys Ile Ile Lys Leu Leu Leu Leu
                260                 265                 270
His Gly Ala Asp Met Met Ala Lys Asn Leu Ala Gly Lys Thr Pro
                275                 280                 285
Thr Asp Leu Val Gln Leu Trp Gln Ala Asp Thr Arg His Ala Leu
                290                 295                 300
Glu His Pro Glu Pro Glu Ser Glu Gln Asn Gly Leu Glu Arg Pro
                305                 310                 315
Gly Ser Gly Arg Glu Thr Pro Gln Pro Ile Pro Ala Gln
                320                 325
```